
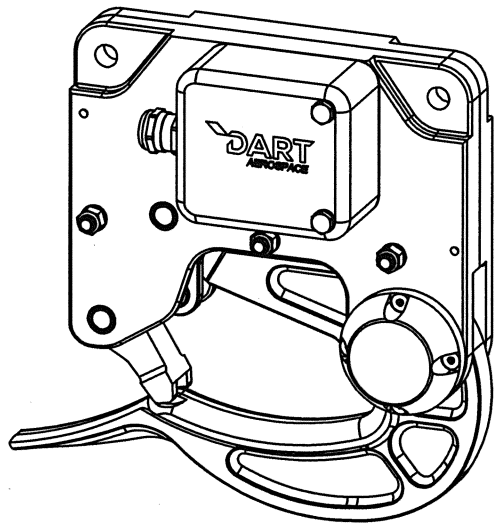
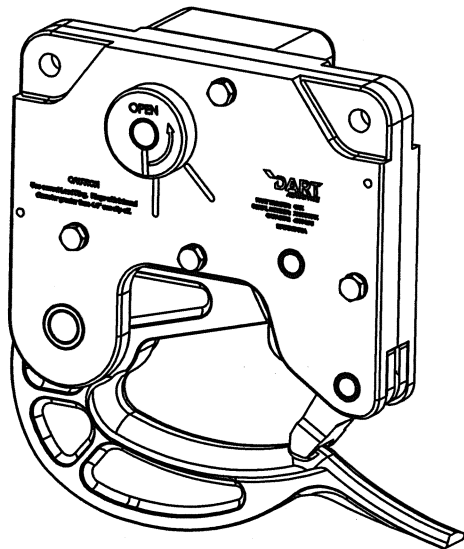


This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.



SEE ATTACHED DEVIATION



ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			C45-1-1	1	MANUAL KNOB RELEASE	6061		2
			C45-2-1	1	SIDE PLATE	7075-T6		2
		B/O	C45-3-1	2	RADIAL BEARING		(KAMAN #1606 2RS)	3
			C45-3-2	1	LATCH ROLLER PIN	O-1		3
		B/O	C45-3-2-1	2	SNAP RING	STEEL	Ø3/8 (KAMAN 1400-0037)	3
			C45-3-3	1	LATCH ROLLER	4140/4142		3
			C45-3-4	2	LINK PIN	O-1		3
		B/O	C45-3-4-1	4	RETAINING RING	BERYLLIUM COPPER	3/16 SHAFT (MCMaster-CARR #98410A110)	3
		B/O	C45-3-5	2	SPACER	TEFLON	(MCMaster-CARR #95606A180)	3
			C45-3-6	1	LATCH	17-4 S.S.		3
			C45-3-7	1	LINK	O-1		3
			C45-3-8A	1	ACTUATOR SHAFT BUSHING	AL BRONZE 630		3
			C45-3-8B	1	ACTUATOR SHAFT BUSHING SOLENOID SIDE	AL BRONZE 630		3
		B/O	C45-3-9	1	LEVER SPRING	303 S.S.		3
			C45-3-10	1	LATCH SHAFT	17-4 S.S.		3
			C45-3-11	1	ACTUATOR	17-4 S.S.		3
		B/O	C45-3-12	1	DU BEARING		(KAMAN 06DU06)	3
			C45-4-1	2	TRUNNION BUSHING	AL-BRONZE 630		2
			C45-4-5	1	LOAD BEAM SPACER	4140/4142 Q&T		2
		B/O	C45-5-1	1	LEVER STOP PIN	STEEL	1/4 X 1-3/8 (MCMaster-CARR #98381A545)	2
			C45-5-2	1	LEVER STOP	304 S.S.		2
			C45-7-1	1	LOAD BEAM BUMPER	POLYURETHANE		2
			C45-7-2	2	LOCK BUMPER	PLOYURETHANE		2
			C45-8-1-2	2	SOLENOID NUT	304 S.S.		2
			C45-8-2	1	SOLENOID ASSY		(REF: H-2553-020)	2
			C45-8-4	1	SOLENOID COVER GASKET	BLENDED RUBBER		2
			C45-8-5	1	SOLENOID COVER	6061		2
			C45-9-1	1	CLOCK SPRING COVER	6061		2
			C45-4-4A	1	C45 LOAD BEAM ASSY.			2
		B/O	C45-9-2	1	CLOCK SPRING	303 S.S.	.03 X .75 X 15 DENDOFF SPRING	2
		B/O	C45-10-1	1	SPRING PIN	S.S.	1/4 X 1.0 (MCMaster-CARR #92373A183)	2
			C45-10-2	1	LOCK SPRING C45 HOOK	302 S.S.		3
			C45-11-1	1	SIDE PLATE SOLENOID	7075-T6		2
		B/O	C45-11-2	2	LOCATING PIN	S.S.	Ø3/16 X 1 (MCMaster-CARR #90145A510)	2
			C45-12-1	2	LOCK BUSHING	4140/4142		3
			C45-12-2	1	LOCK SHAFT	4140/4142		3
			C45-12-3	1	LOCK	4140/4142		3
			C45-12-4	1	LOCK ROLLER	4140/4142		3
			C45-12-5	1	LOCK ROLLER PIN	4140/4142		3
		B/O	C45-12-6	2	RETAINING RING	STEEL	(KAMAN #N1400-0050)	3
			C45-13-1	2	KEEPER BUSHING	4140/4142		3
		B/O	C45-13-2	2	SPACER	NYLON	(MCMaster-CARR #95606A210)	3
			C45-13-3	1	KEEPER SHAFT	4140/4142		3
			C45-13-4	1	KEEPER	4140/4142		3
		B/O	C45-13-5	1	KEEPER SPRING	303 S.S.	CHAMBERLAIN SPRING	3
			600.1309	1	LABEL 	ALUMINUM		N/S
			600.1309-A	1	LABEL 	ALUMINUM		N/S
		B/O	600.1312	1	CAUTION STICKER 			N/S
		B/O	C2-14-2	2	LABEL RIVETS 	18-8 S.S.	NO 4 (MCMaster-CARR #91654A106)	N/S
		B/O	188-FPSS-1/4 20-3/8	2	SET SCREW	S.S.	1/4-20 (MCMaster-CARR #92313A535)	2
		B/O	188-FSCS-1032-5/8	4	SCREW	S.S.	10-32 X 5/8 FSHCS (MCMaster-CARR #92210A303)	2
		B/O	AN4-24A	2	BOLT	STEEL	1/4-28 X 2.53	2
		B/O	AN5-21A	4	BOLT	STEEL	5/16-24 X 2.22	2
		B/O	MS21044N5	4	LOCK NUT	S.S.	5/16	2
		B/O	AN960-416	3	WASHER	STEEL	1/4	2
		B/O	AN960-516	8	WASHER	STEEL	Ø5/16	2
		B/O	MS27039-4-08	1	BOLT	STEEL	1/4-28 X .531	2
		B/O	EL 314-SJTOW 3/14	1	3 WIRE		(TEXCAN 314-SJTOW 3/14)	2
		B/O	32448	2	16-14 AWG KNIFE CONNECTOR		(ALLIED ELECTRONICS 32448)	2
		B/O	C10-41	1	STRAIN RELIEF CONNECTOR	BRASS	1/2 TRADE SIZE (MCMaster-CARR #6907K14)	2
		B/O	EL-PLUG-M	1	MALE PLUG	PE High Density	(MCMaster-CARR #7216K5)	2
		B/O		1	HEAT SHRINK TUBE	RUBBER	(MCMaster-CARR #2595K22)	N/S

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1	15-0018	UPDATED TO NEW DRAFTING STANDARDS. CH'D P/NS TO REFLECT AN & MS NUMBERS. ADDED REBUILD AND CUSTOMER REBUILD NOTES.	1/20/2015	DPD	JAG
2	15-0230	C45-5-1 CH'D B/O WAS Ø1/4 X 1-1/2 #98381A546 IS Ø1/4 X 1-3/8 #98381A545. C45-1-2 REPLACED W/ 188-FPSS-1/4 20-3/8. C45-9-1-1 REPLACED W/ 188-FSCS-1032-5/8. MS27039-4-10 REPLACED W/ MS27039-4-08. CORD GRIP REPLACED W/ C10-41. 32448 ADDED TO BOM QTY 2. ADDED ENGRAVING NOTES & DETAILS.	9/10/2015	DPD	JAG
C		P/N WAS AN4-23A IS AN4-24A AND DESCRIPTION WAS 1/4-28 X 2.41 IS 1/4-28 X 2.53	5/07/2019	MBB	



NOTES:

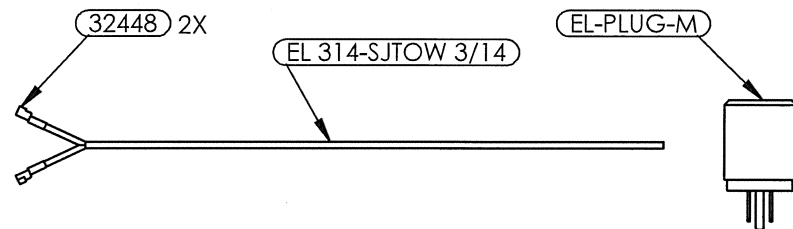
-  FOR REBUILD ONLY.  
 FOR CUSTOMER REBUILD ONLY.

	
TITLE C45-HOOK	
DWG NO. C45	REV C
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1	DRAWN BY: MBB APPROVED:  HEAT TREAT FINISH SPEC 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING
SCALE 1:4	DATE SHEET 1 OF 3

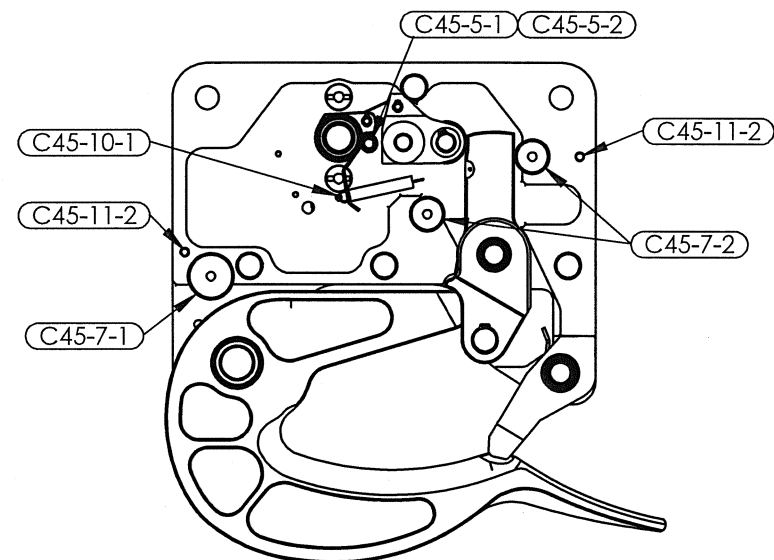
This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

SEE ATTACHED DEVIATION

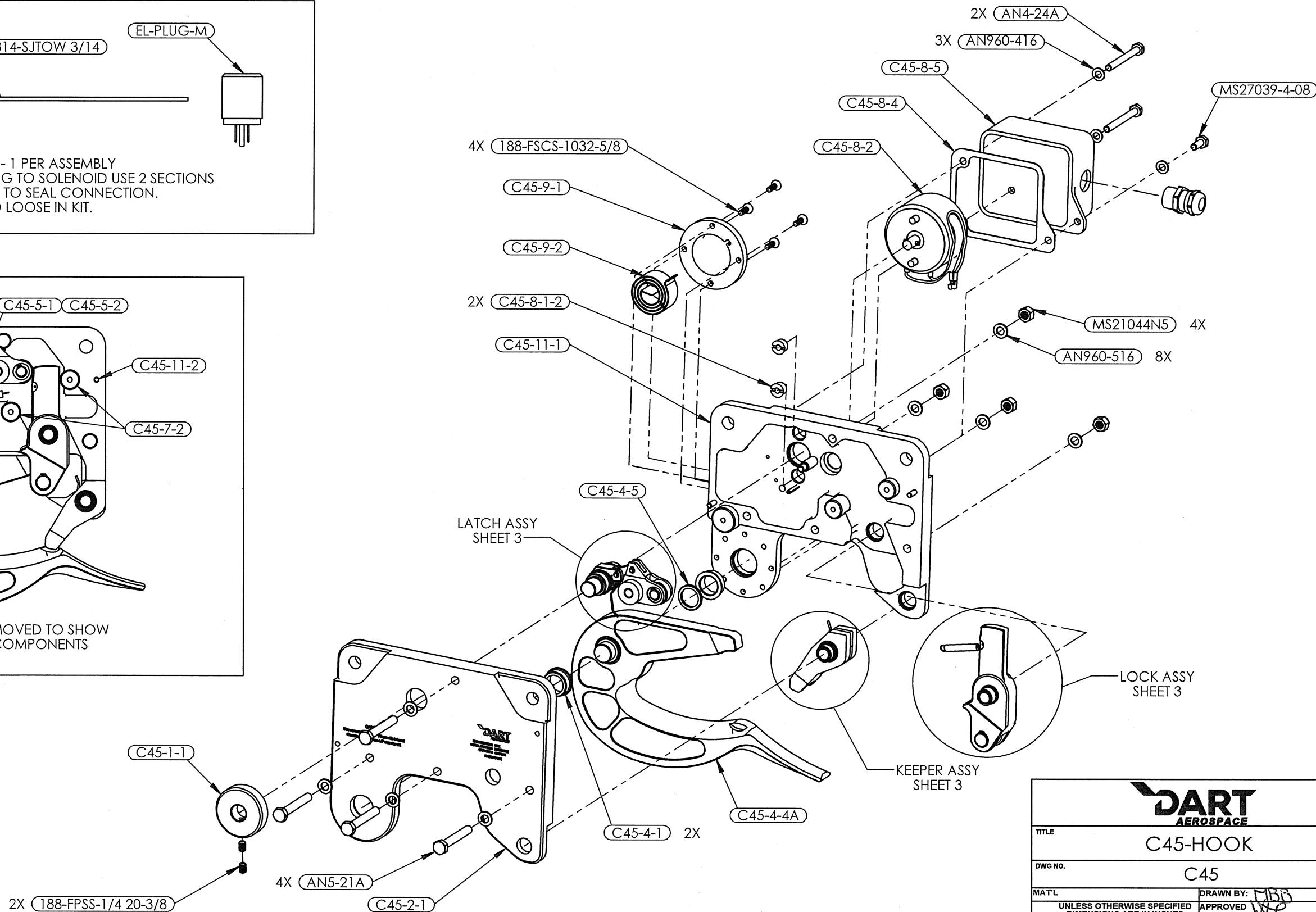
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED



WIRE ASSEMBLY - 1 PER ASSEMBLY  
WHEN INSTALLING TO SOLENOID USE 2 SECTIONS  
OF HEAT SHRINK TO SEAL CONNECTION.  
PLUG INCLUDED LOOSE IN KIT.



SIDE PLATE REMOVED TO SHOW  
INTERNAL COMPONENTS



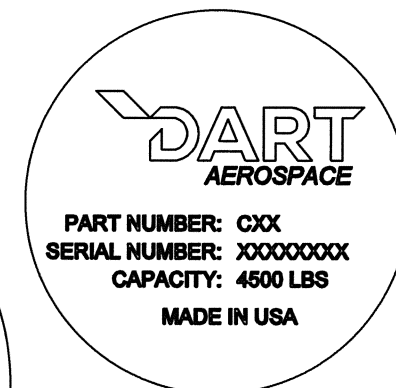
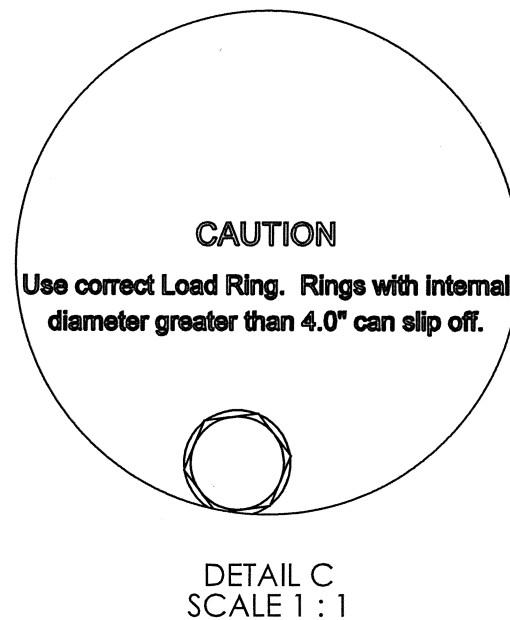
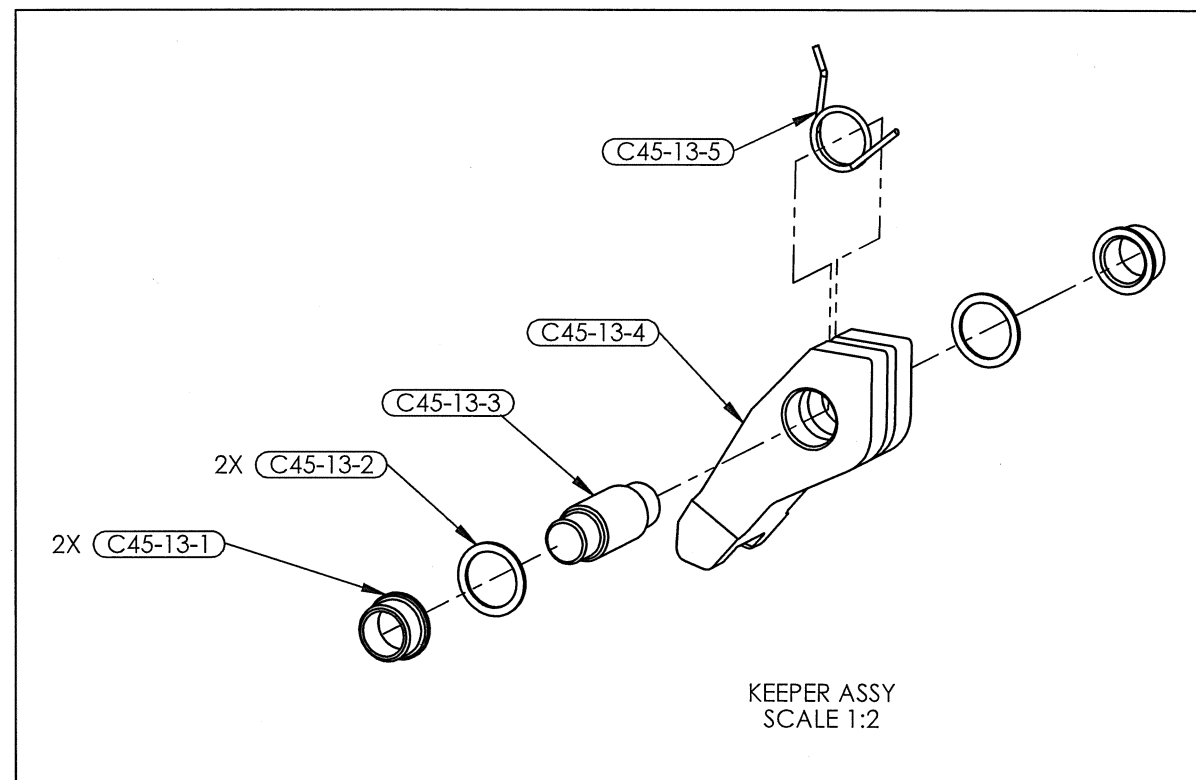
<b>DART</b> AEROSPACE	
TITLE C45-HOOK	
DWG NO. C45	REV C
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1	DRAWN BY: MB3 APPROVED: [Signature] HEAT TREAT FINISH SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:4	DATE SHEET 2 OF 3



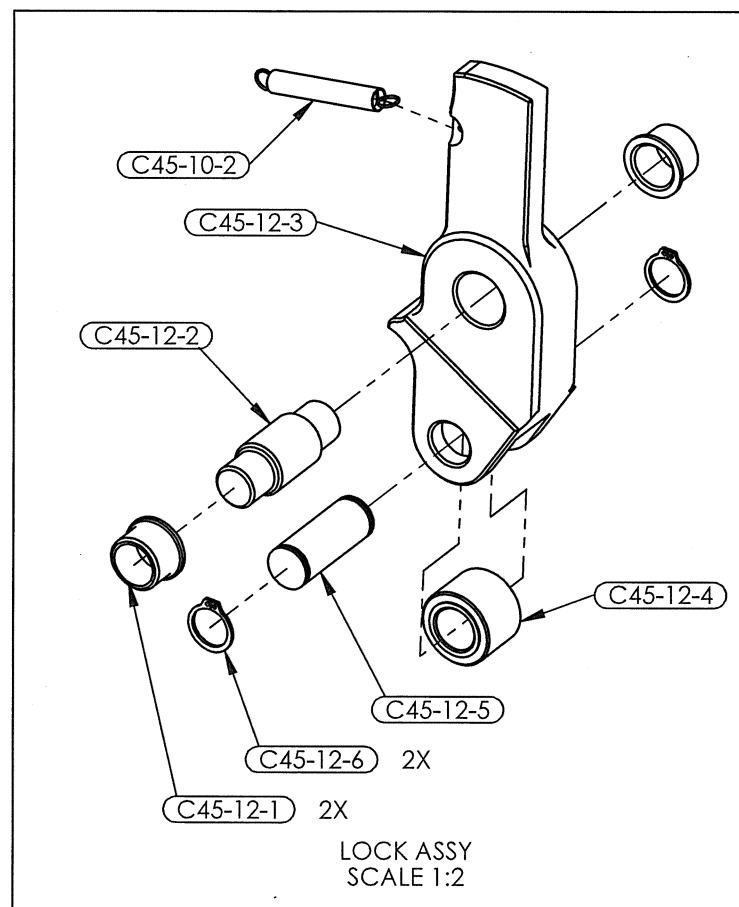
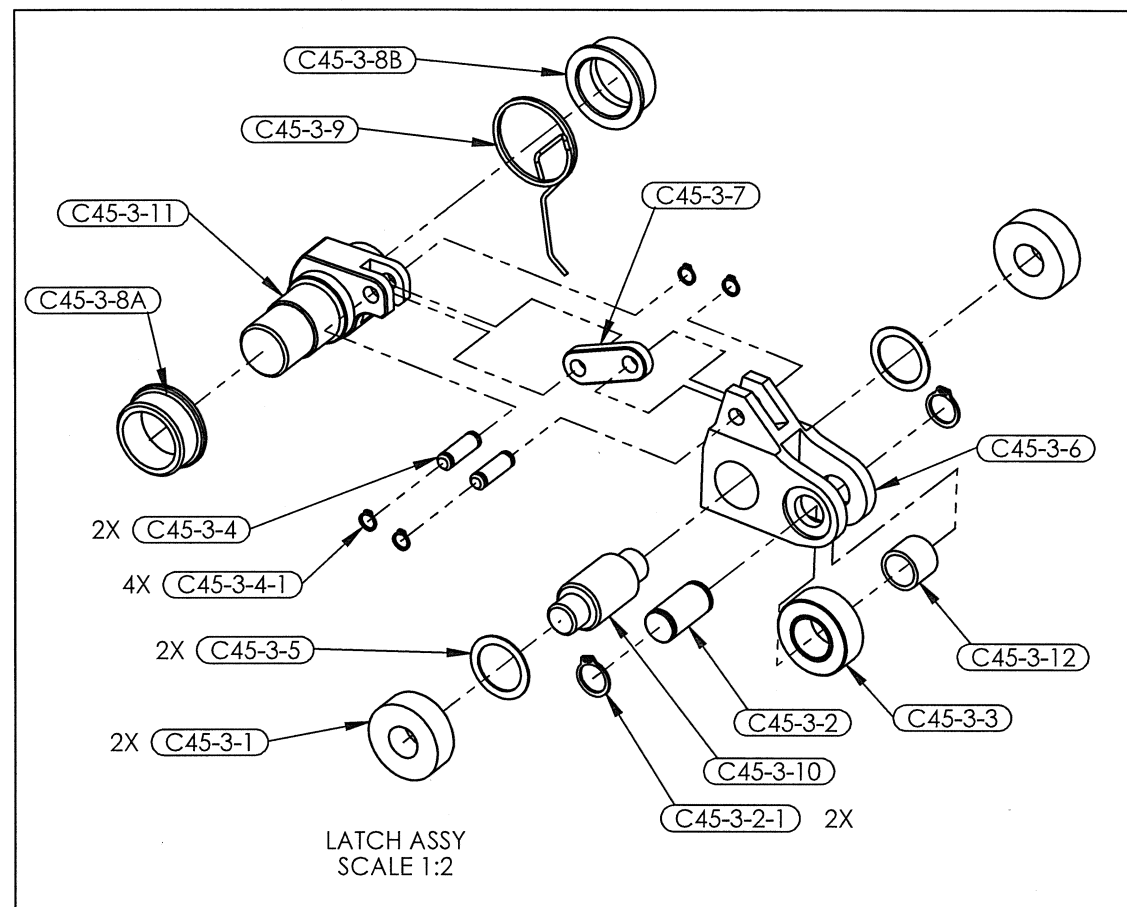
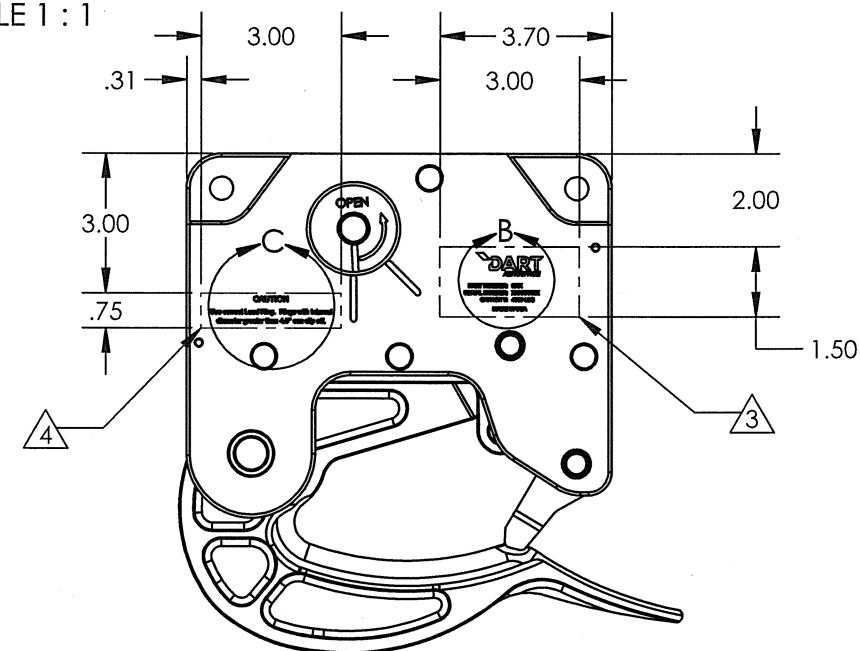
This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

SEE ATTACHED DEVIATION

REVISIONS			DATE	INITIAL	APPROVED
REV	ECR	DESCRIPTION			
2	15-0230	ADDED ENGRAVING NOTES & DETAILS.	9/10/2015	DPD	JAG



DETAIL B  
SCALE 1:1



NOTES:

- 3 LASER ENGRAVE DART LOGO, P/N, S/N, "MADE IN USA," WITHIN BOUNDARY.
- 4 LASER ENGRAVE CAUTION NOTE, WITHIN BOUNDARY.

<b>DART</b> AEROSPACE	
TITLE C45-HOOK	
DWG NO. C45	REV C
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1	DRAWN BY: <i>WBB</i> APPROVED: <i>WBB</i> HEAT TREAT FINISH SPEC USED ON MODEL
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:4	DATE SHEET 3 OF 3

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

Job: _____  Part No. <u>C series hooks and SWA Swivels</u>	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/>	<b>DEPARTMENT/PROCESS</b>  <div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input checked="" type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/>            Water Jet <input type="checkbox"/>            Supplier <input type="checkbox"/>            Quality <input type="checkbox"/> </div> </div>		
Date :	Sequence #:	QTY Affected :		<b>MRB (QSI042)</b>  May, 9 2019 <i>M. Lee</i>
<b>Description Work Order Deviation</b>		<b>Disposition</b>		<b>Completed By</b>
The electrical wires listed under "Acceptable Alternate Wire" on the attached sheet are acceptable to use in place of the "Drawing Specified Wire"		This deviation is acceptable.  No change to fit form or function.  The job route must specify the wire that is called out on the drawing  The inventory P/N must reflect the same P/N that was received from a vendor		<b>Lead hand / Supervisor</b>   
				<b>QC / QA Coordinator</b>   
<b>Root Cause</b>		<b>FAULT CATEGORY</b>		
<div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Presservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input checked="" type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div>		<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced  <input type="checkbox"/> Bending  <input type="checkbox"/> Crushing  <input type="checkbox"/> Cracks  <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist  <input type="checkbox"/> Marks/Chatter  <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination  <input type="checkbox"/> Misaligned/off center  <input type="checkbox"/> BOM/Route  <input type="checkbox"/> Broken/Damage/Defect  <input type="checkbox"/> Incomplete/Unclear Instructions  <input type="checkbox"/> Drill Holes  <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Folio/Program  <input type="checkbox"/> Grain Direction  <input type="checkbox"/> Weld  <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Out of Sequence  <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong  <input type="checkbox"/> Outside Tolerance  <input type="checkbox"/> Drawing  <input type="checkbox"/> Finish  <input type="checkbox"/> Part Lost/Missing  <input type="checkbox"/> Misread         </div> </div>		
Other/Details:				

P/N	Revision	Drawing Specified Wire	Acceptable Alternate Wire
C2	2	MIL-C-27500 11-14416	N/A
C3	2	MIL-C-27500 11-14417	N/A
C10	3	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
C15	2	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
C20	C	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
C45	C	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
C60	C	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
C250	C	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA3-2	3	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA3-3	3	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA3-4	3	EL 414-ARTIC 4/14	Texcan 01121-744A5
SWA6A-2	E	Texcan 01121-724AM	N/A
SWA6A-3	E	Texcan 01121-734A5 or 01004-08-047	N/A
SWA6A-4	E	Texcan 01121-744A5	N/A
SWA6A-6	E	Texcan 04121-764A5	N/A
SWA6A-8	E	Texcan 12701-08-014 or McMaster 7081K38	N/A
SWA10A-2	3	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA10A-3	3	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA10A-4	3	EL 414 ARTIC 4/14	Texcan 01121-744A5
SWA10A-6	3	EL 616 ARTIC	Texcan 04121-764A5
SWA10A-8	3	Polar Wire 30806	Texcan 12701-08-014 or McMaster 7081K38
SWA15A-2	1	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA15A-3	1	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA15A-4	1	EL 414 ARTIC 4/14	Texcan 01121-744A5
SWA15A-6	1	EL 616 ARTIC	Texcan 04121-764A5
SWA15A-8	1	EL 816 ARTIC	Texcan 12701-08-014 or McMaster 7081K38
SAW25A-2	1	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SAW25A-3	1	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SAW25A-4	1	EL 414 ARTIC 4/14	Texcan 01121-744A5
SAW25A-6	1	EL 616 ARTIC	Texcan 04121-764A5
SAW25A-8	1	EL 816 ARTIC	Texcan 12701-08-014 or McMaster 7081K38